

Title (en)

Photovoltaic module comprising insulation layer with silane groups

Title (de)

Photovoltaisches Modul mit einer silangruppenhaltigen Isolationsschicht

Title (fr)

Module photovoltaïque comportant une couche d'isolation avec des groupes de silane

Publication

EP 2660877 A3 20140219 (EN)

Application

EP 13003244 A 20080709

Priority

- EP 13003244 A 20080709
- EP 08012423 A 20080709

Abstract (en)

[origin: EP2144301A1] The present invention relates to a photovoltaic module comprising a solar cell element and an insulation material laminated to at least one side of the solar cell element wherein the insulation material comprises an olefin copolymer which comprises silane group-containing monomer units, to a process for the production of such a photovoltaic module, and to the use of an olefin copolymer which comprises silane group-containing monomer units for the production of an insulation layer of a photovoltaic module.

IPC 8 full level

H01L 31/048 (2006.01)

CPC (source: CN EP KR US)

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Citation (search report)

- [XA] WO 2007120197 A2 20071025 - DOW CORNING [US], et al
- [XA] EP 1857500 A1 20071121 - MITSUI DU PONT POLYCHEMICAL [JP], et al
- [X] EP 1837372 A1 20070926 - MITSUI DU PONT POLYCHEMICAL [JP], et al
- [A] WO 2007061030 A1 20070531 - MITSUI CHEMICALS INC [JP], et al
- [A] DE ORSI D ET AL: "Simple Extraction and HPLC Determination of UV-A and UV-B Filters in Sunscreen Products", CHROMATOGRAPHIA ; AN INTERNATIONAL JOURNAL FOR RAPID COMMUNICATION IN CHROMATOGRAPHY, ELECTROPHORESIS AND ASSOCIATED TECHNIQUES, VIEWEG VERLAG, WI, vol. 64, no. 9-10, 29 September 2006 (2006-09-29), pages 509 - 515, XP019445984, ISSN: 1612-1112

Cited by

AU2018216859B2; WO2018141672A1

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